

2nd International Conference

Micro Perspectives for Decentralized Energy Supply

Feb. 27 to Mar. 1, 2013 in Berlin, Germany



The role of energy in development processes

**Towards an Energy Plus Approach: Good
practices and lessons learned from Asia-Pacific**

Martin Krause
UNDP

The challenge... Energy-Poverty Cycle

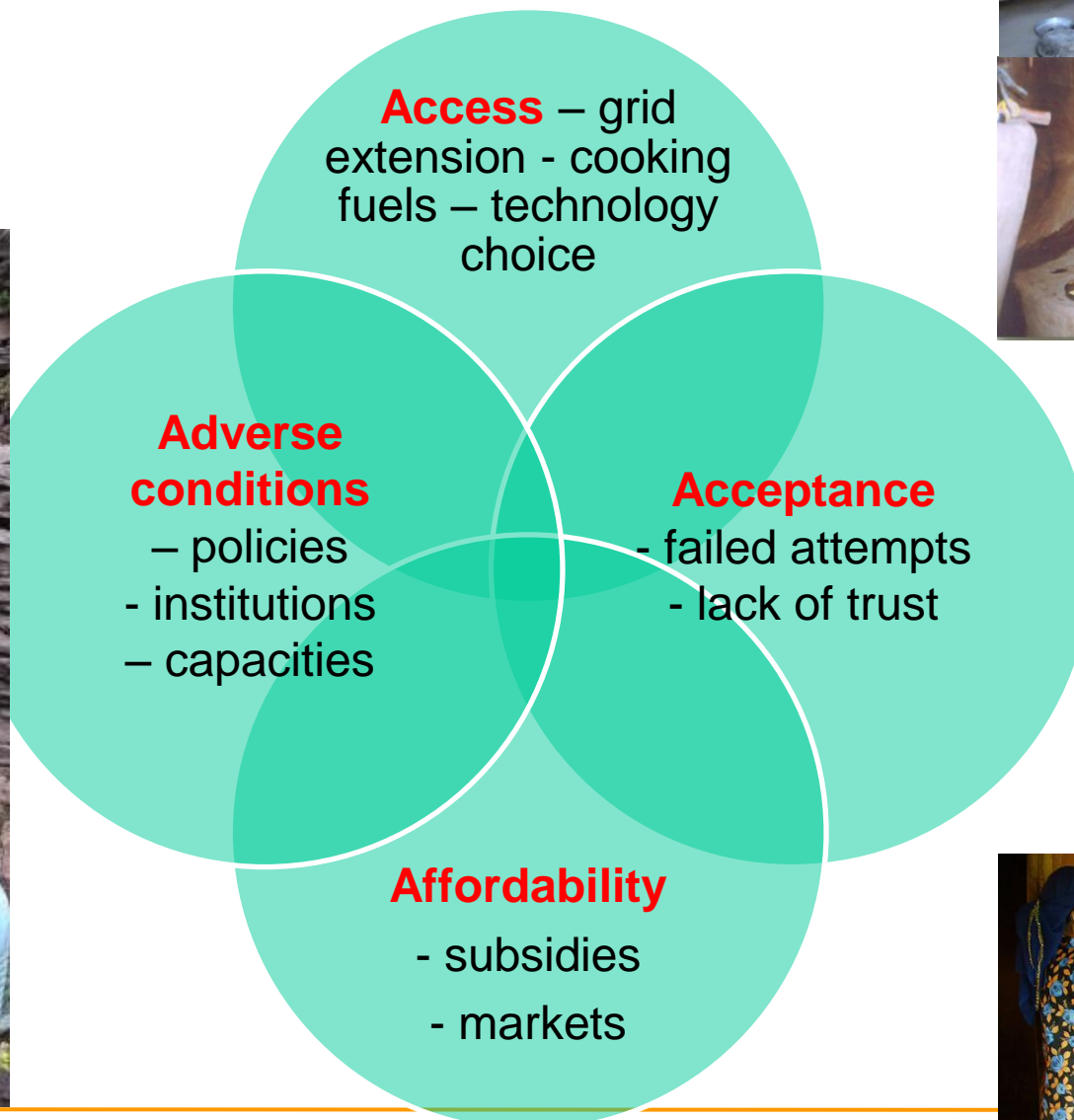


Practitioner Paper

- **800 million** people in Asia-Pacific are without access to electricity
- more than **1.9 billion** people in Asia-Pacific depend on biomass for cooking and heating
- nearly **2 million** people around the world die prematurely each year from illness attributable to indoor air pollution
- **6%** of global deforestation is due to fuel-wood collection



The challenge... Energy-Poverty Cycle



The challenge... Energy-Poverty Cycle



Practitioner Paper



**EE stoves
Women SHGs
India**

**Solar Energy
Philippines**

**Solar Lanterns
Lao PDR**

**Rural RE
Timor-Leste**

**Renewable
Energy
Nepal**

**EE Stove
China**

**Renewable
Energy
China**

**Vanuatu
Community
Powerhouse
Model**

**Renewable
Energy
Sri Lanka**

**Renewable
Energy
Philippines**

**Rural
Electrification
Fiji**

**Rural
Electrification
India**

**BioGas
Nepal**

**Water Mills
Nepal**

**Micro-hydro
Bhutan**

**BioGas
China**

**EE Stoves
Informal
Industry
India**



Listening

Policies

Financing

Project End-User

Practitioner Paper



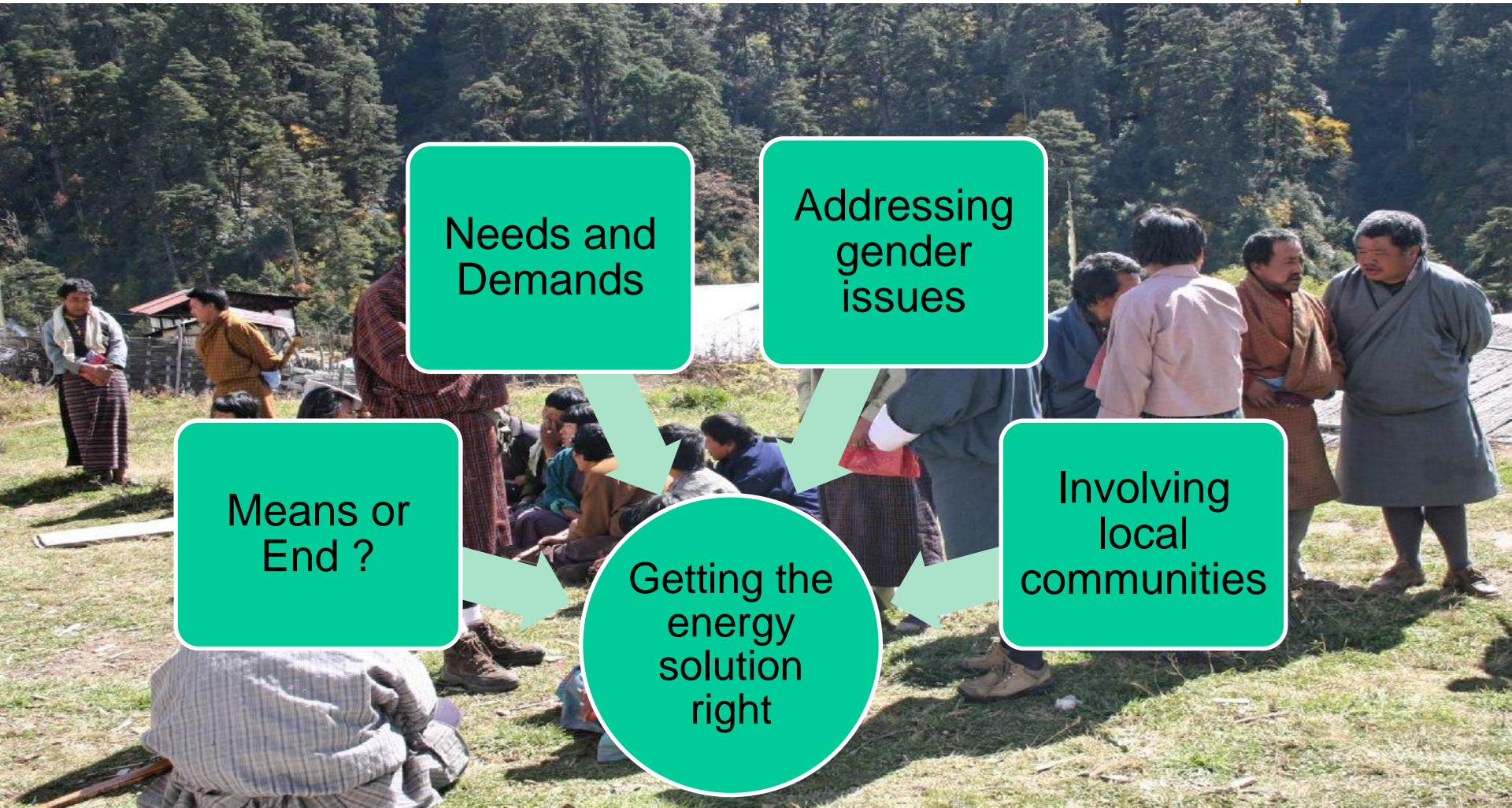


Listening

Policies

Financing

Project End-user



Needs and
Demands

Addressing
gender
issues

Means or
End ?

Involving
local
communities

Getting the
energy
solution
right



Listening

Policies

Financing
Project End-user



Rural Electr. Fiji

- National targets
- National investments



RE China

- Market based instruments
- Combining public, private & development financing

Long term Government Commitment



Listening

Policies

Financing

Project End-user

Financing (Project)

**Domestic/
Internat.
Public
Finance**

**Financing
institutions/
instruments –
microcredits,
loans, loan
guarantees**

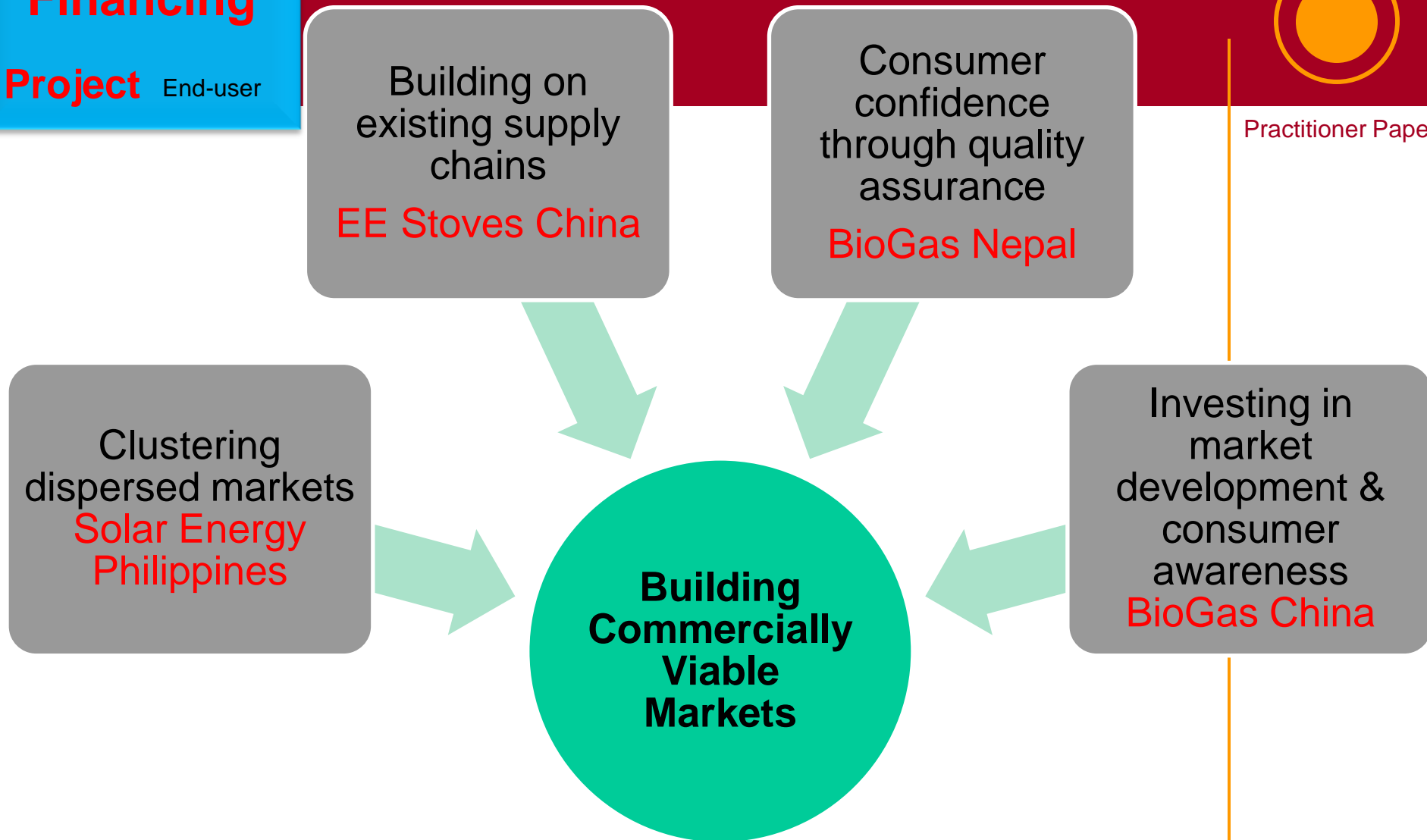
**Private sector
– companies
– building
commercial
markets**

Financing

Project End-user



Practitioner Paper



Development Dividends of Energy Access



Practitioner Paper



reduced
household
expenditure
on energy



electricity
brings
lifestyle
changes &
makes work
easier

**MDG 1:
Reducing
extreme
poverty and
hunger**

energy for
productive
purposes
increases
incomes



RE projects
create
employment
for
communities



MDG 2

MDG 3

MDG 6

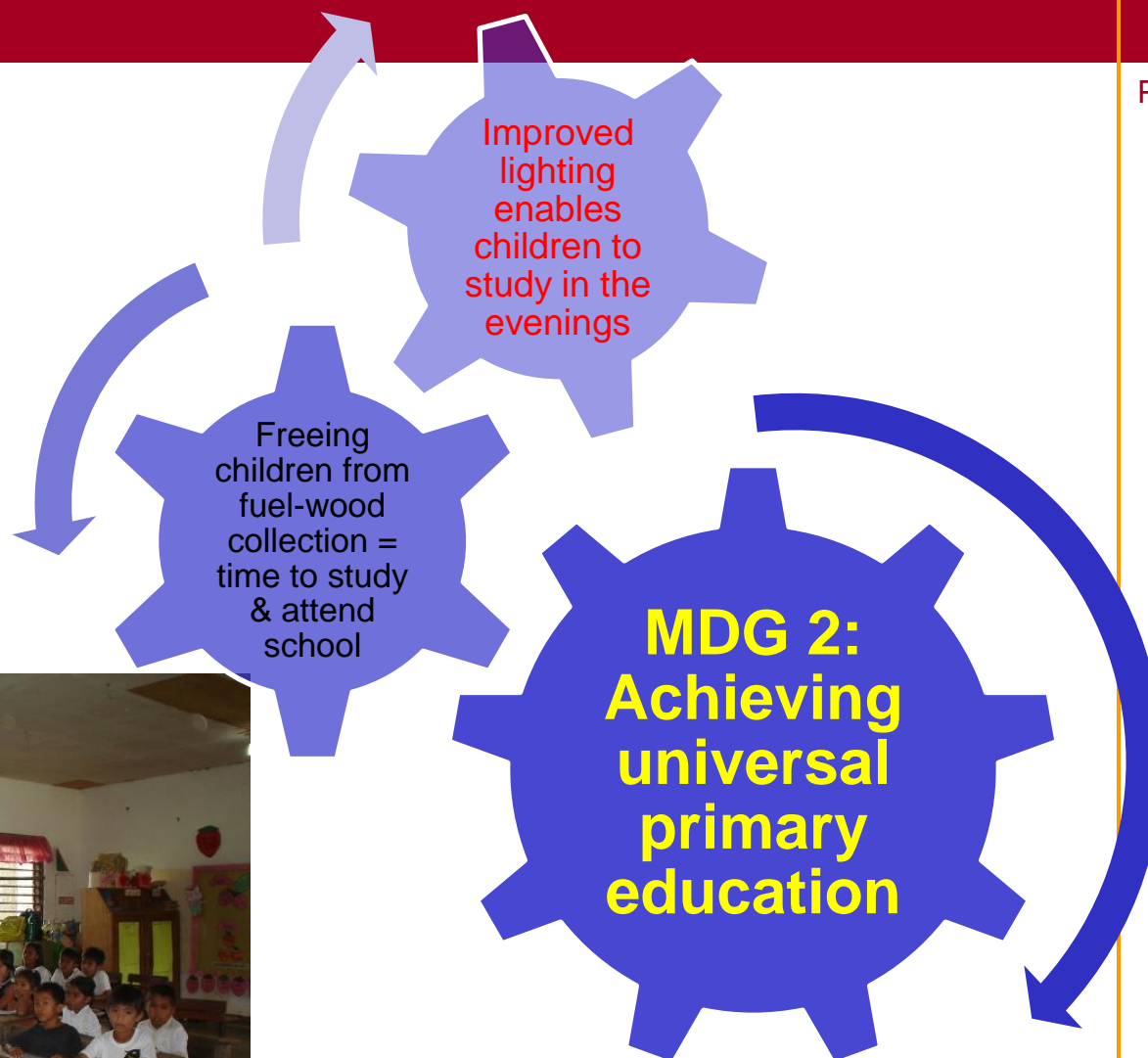
MDG 4&5

MDG 7&8

Development Dividends of Energy Access



Practitioner Paper



MDG 1

MDG 3

MDG 6

MDG 4&5

MDG 7&8

Development Dividends of Energy Access

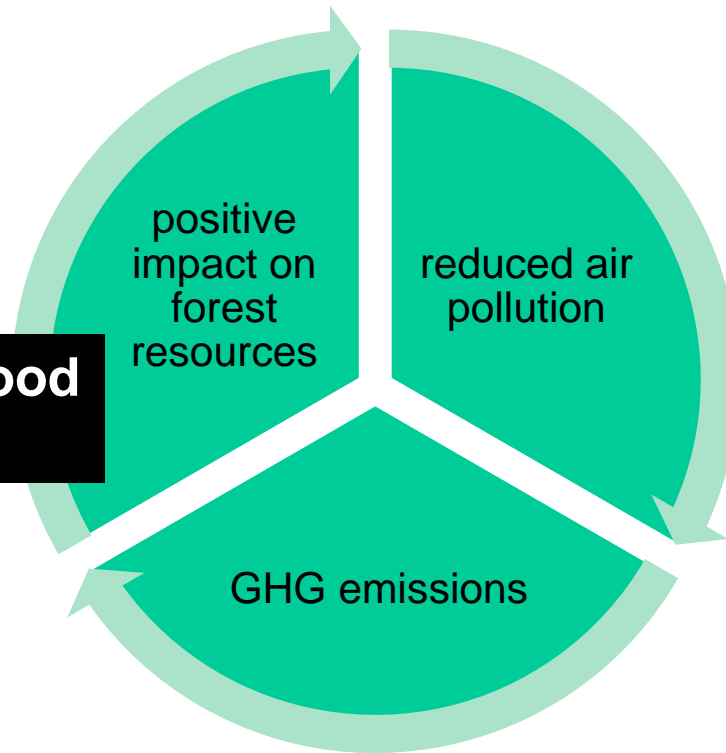


Practitioner Paper

MDG 7: Ensuring Environment Sustainability



Reduced fuel wood consumption



MDG 1

MDG 2

MDG 3

MDG 6

MDG 4&5



Mar. 1, 2013, in Berlin, Germany



Breaking Energy-Poverty Cycle

Coordinated Collaboration

Governments:
policies,
subsidies

**Development
partners:**
capacity
development +
business skills

Private sector:
manufacture,
sell & service
energy
technologies +
embrace
entrepreneurial
spin-off

Civil Society:
mobilize
communities &
disseminate
information

**Financial
Institutions:**
loans, micro-
financing



Thank you

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